

ABSTRACT OF THE DISCLOSURE

A system for filtering well water residing in a water storage tank or reservoir in which water laden with sediment and debris is removed by a pump from the center of the bottom of the tank, passed through one or more sand filters, and returned to the tank. The suction caused by the pumping action creates a vortex in the water in the storage tank which promotes the collection and accumulation of sediment and debris in the center of the bottom of the tank. The tangential injection of the return water aids in the creation of the vortex or swirling motion around central axis of rotation which in turn causes particulate matter, dirt, and debris to gravitate to the bottom of the tank and collect in the center of the tank's floor, which is skimmed by either the same or a separate stand-alone pumping action. The degree of separation of the particulate matter from the well water is substantial with a large majority of the particulate matter accumulating near the center of the bottom of the tank. This process is repeated periodically, and the resultant purity of the well water quickly becomes much higher than any competing filtration systems. The system also requires only minimal retrofitting of existing tanks, and may contain one or more spa-type aerators to introduce air bubbles into the tank water for the prevention of algae buildup, and the removal of carbon dioxide and sulfuric compounds from the water mixture.